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File: USPT

Apr 30, 1974

DOCUMENT-IDENTIFIER: US 3808061 A

TITLE: NITROCELLULOSE SOLID PROPELLANT COMPOSITION WITH LOAD ADDITIVE TO REDUCE RADAR ATTENUATION

Abstract Paragraph Left (1):

1. A nitrocellulose propellant composition consisting essentially of an intimate admixture of about 10% to about 60% nitrocellulose, about 20% to about 50% energizing plasticizer for nitrocellulose, 0% to about 25% of a metallic fuel, about 1% to about 15% of a non-explosive plasticizer for nitrocellulose, about 1% to about 5% of a stabilizer, 0% to about 5% of a burning rate modifier, and from about 0.5% to about 5.0% of lead chromate, all percentages expressing percent by weight of total compositions.

Current US Cross Reference Classification (7):

149/99

CLAIMS:

1. A nitrocellulose propellant composition consisting essentially of an intimate admixture of about 10% to about 60% nitrocellulose, about 20% to about 50% energizing plasticizer for nitrocellulose, 0% to about 25% of a metallic fuel, about 1% to about 15% of a non-explosive plasticizer for nitrocellulose, about 1% to about 5% of a stabilizer, 0% to about 5% of a burning rate modifier, and from about 0.5% to about 5.0% of lead chromate,

2. A double-base propellant composition consisting essentially of an intimate admixture of about 10% to about 60% nitrocellulose with said nitrocellulose containing about 12.5% to about 13.5% by weight nitrogen, about 20% to about 50% nitroglycerin, 0% to about 25% of a metallic fuel selected from the group consisting of aluminum, boron, magnesium, alloys of these metals with each other, aluminum hydride, and borohydrides, about 1% to about 15% of a non-explosive plasticizer for said nitrocellulose selected from the group consisting of organic phosphate esters, phthalate esters, diesters of adipic acid, diesters of succinic acid, diesters of sebacic acid, triacetin, triethylene glycol, orthonitrobiphenyl, and di-2-ethyl butyrate, about 1% to about 5% of at least one stabilizer selected from the group consisting of 2-nitrodiphenylamine, symmetrical diethyl diphenyl urea, resorcinol, diphenylamine, and methylethyldiphenyl urea, 0% to about 5% of at least one burning rate modifier selected from the group consisting of lead salicylate, lead acetylsalicylate, lead azide, lead stearate, lead oxide, ethyl centralite, cellulose acetate, ammonium nitrate, and ammonium perchlorate, and about 0.5% to about 5.0% lead chromate, all percentages expressing percent by weight of total

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*DB=USPT,PGPB; PLUR=YES; OP=OR*L14 L13 and (stabilizer same (4% or 5% or 3%))6 L14L13 ((149/100)!.CCLS.)263 L13L12 L11 and (stabilizer same (4% or 5% or 3%))1 L12L11 ((149/99)!.CCLS.)118 L11L10 L9 and nitrocellulose4 L10L9 blomquist-harold-r.in. or blomouist-harold-r.in.16 L9*DB=PGPB,USPT; PLUR=YES; OP=OR*L8 "BLOMQUIST-HAROLD-R".IN.!15 L8L7 "BLOMQUIST-HAROLD-R".IN.!15 L7L6 "BLOMOUIST-HAROLD-R".IN.!1 L6L5 "BLOMQUIST-HAROLD-R".IN.!15 L5L4 "BLOMQUIST-HAROLD-R".IN.!15 L4L3 "BLOMQUIST-HAROLD-R".IN.!15 L3L2 ("BLOMOUIST-HAROLD-R".IN. | "BLOMOUIST".IN.)!1 L2L1 ("BLOMOUIST-HAROLD-R".IN. | "BLOMOUIST".IN.)!1 L1

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